

Title (en)  
TANDEM MASTER CYLINDER

Publication  
**EP 0095404 B1 19860102 (FR)**

Application  
**EP 83400927 A 19830506**

Priority  
IT 2144382 A 19820524

Abstract (en)  
[origin: EP0095404A1] 1. Tandem master cylinder comprising a casing (12) provided with a blind bore (14) slidably receiving a first piston (16) disposed adjacent the open side of the blind bore and manually displaceable from the exterior towards the interior of the bore, and a second piston (22) disposed between the first piston (16) and the bottom (20) of the bore, a first work chamber (24) being defined between the two pistons and a second work chamber (26) being defined between the second piston and the bottom (20) of the bore, a first return spring (28) being interposed between the bottom of the bore and the second piston (22), and a second return spring (30) being interposed between the two pistons, said springs biasing the pistons towards the exterior of the bore in the direction of abutments (32, 34) defining rest positions for the pistons, for which the work chambers (24, 26) communicate with a reservoir (42), and said second return spring (30) being mounted in a telescopic cage (36) which maintains it at rest under a predetermined pre-compressed condition, characterized in that said telescopic cage (36) comprises two members (52a, 55b) of substantially identical U-shape intercalated in opposite directions, said second spring (30) being mounted around said members.

IPC 1-7  
**B60T 11/20**

IPC 8 full level  
**B60T 11/20** (2006.01)

CPC (source: EP)  
**B60T 11/20** (2013.01)

Cited by  
DE3835395A1; DE19903014B4; US4939901A; DE10005743A1; FR2916404A1; US6519940B2; WO0044600A1

Designated contracting state (EPC)  
DE FR GB SE

DOCDB simple family (publication)  
**EP 0095404 A1 19831130; EP 0095404 B1 19860102**; DE 3361680 D1 19860213; IT 1151218 B 19861217; IT 8221443 A0 19820524

DOCDB simple family (application)  
**EP 83400927 A 19830506**; DE 3361680 T 19830506; IT 2144382 A 19820524